

Substitutions per nucleotide position

FIG. 1

2/10

CNQ695 (SEQ ID NO: 1)

GTTTGATTCCCTGCTCAGGACGAACGCTGGCGGCGTGCTTAACACAT GCAAGTCGAACGATGATCCGGTTTTCGGCCGGTGATTAGTGGCGAAC GGGTGAGTAACACGTGGGTAATCTGCCCTGCACTCTGGGATAAGCC CGGGAAACTGGGTCTAATACCGGATATGACCTTCGGTCGCATGATC GTTGGTGGAAAGCTTTTGCGGTGTGGGATGGGCCCGCGCCTATCA GCTTGTTGGTGGGGTGATGGCCTACCAAGGCGACGACGGGTAGCCG GCCTGAGAGGGTGACCGGCCACACTGGGACTGAGACACGGCCCAGA CTCCTACGGGAGCAGCAGTGGGGAATATTGCACAATGGGCGCAAG CCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTTGTA AACCTCTTTCAGCAGGGAAGAAGCGCAAGTGACGGTACCTGCAGAA GAAGCACCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGG TGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGTAGGCGG CTTGTCGCGTCGGTTGTGAAAGCCCGGGGCTTAACCCTGGGTCTGCA GTCGATACGGGCAGGCTAGAGTTCGGTAGGGGAGACTGGAATTCCT GGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCG AAGGCGGGTCTCTGGGCCGATACTGACGCTGAgGAGCGAAAGCGTG GGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGG TGGĠAACTAGGTGTGGGCAGCATTCCACGTTGTCTGTGCCGTAGCTA ACGCATTAAGTTCCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAAC TCAAAGGAATTGACGGGGGCCCGCACAAGCGGCGGAGCATGTGGCT TAATTCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATGCATC GGAAGCATCCAGAGATGGGTGTGCTCTTTGAGTCGGTGTACAGGTG GTGCATGGCTGTCAGCTCGTGTCGTGAGATGTTGGGTTAAGTCC CGCAACGAGCGCAACCCTTGTCCTGTGTTGCCAGCGGAGCCTTCGGG CTGCCGGGGACTCACGGGAGACTGCCGGGGTCAACTCGGAGGAAGG TGGGGACGACGTCAAGTCATCATGCCCCTTATGTCTTGGGCTGCACA CGTGCTACAATGGCCGGTACAATGAGCTGCGATGCCGTGAGGTGGA GCGAATCTCAAAAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAACTC GACCCCATGAAGTCGGAGTCGCTAGTAATCGCAGATCAGCATTGCT GCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACGTCAC GAAAGTCGGTAACACCCGAAGCCGGTGGCCTAACCCCTTGTGGGAG GGAGTCGTCGAAGGTGGGACTGGCGATTGGGACGAAGTCG

FIG. 2A

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CNQ703. (SEQ ID NO:2)

AGAGTTTGATCCTGGCTCAGGACGACGCTGGCGGCGTGCTTAACAC ATGCAAGTCGAACGATGATCCGGTTTTCGGCCGGTGATTAGTGGCGAA CGGGTGAGTAACACGTGGGTAATCTGCCCTGCACTCTGGGATAAGCC CGGGAAACTGGGTCTAATACCGGATATGACCTTCGGTCGCATGATCG TTGGTGGAAAGCTTTTGCGGTGTGGGATGGGCCCGCGCCTATCAGC TTGTTGGTGGGGTGATGGCCTACCAAGGCGACGACGGGTAGCCGGCC TGAGAGGGTGACCGGCCACACTGGGACTGAGACACGGCCCAGACTC CTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGCAAGCCT GATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTTGTAAACC TCTTTCAGCAGGGAAGAAGCGCAAGTGACGGTACCTGCAGAAGAAG CACCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGTGCAA GCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGTAGGCGGCTTGTC GCGTCGGTTGTGAAAGCCCGGGGCTTAACCCTGGGTCTGCAGTCGAT ACGGGCAGGCTAGAGTTCGGTAGGGGAGACTGGAATTCCTGGTGTA GCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCG GGTCTCTGGGCCGATACTGACGCTGAGGAGCGAAAGCGTGGGGAGC GAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGGTGGGAAC TAGGTGTGGGCAGCATTCCACGTTGTCTGTGCCGTAGCTAACGCATT AAGTTCCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACTCAAAGG AATTGACGGGGCCCGCACAAGCGGCGGAGCATGTGGCTTAATTCGA CGCAACGCGAAGAACCTTACCAAGGCTTGACATGCATCGGAAGCATC CAGAGATGGGTGTGCTCTTTGAGTCGGTGTACAGGTGGTGCATGGCT GTCGTCAGCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGC GCAACCCTTGTCCTGTGTTGCCAGCGGAGCCTTCGGGCTGCCGGGGA CTCACGGGAGACTGCCGGGGTCAACTCGGAGGAAGGTGGGGACGAC GTCAAGTCATCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAAT GGCCGTACAATGAGCTGCGATGCCGTGAGGTGGAGCGAATCTCAA AAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAACTCGACCCCATGAA GTCGGAGTCGCTAGTAATCGCAGATCAGCATTGCTGCGGTGAATACG TTCCCGGGCCTTGTACACACCGCCCGTCACGTCACGAAAGTCGGTAA CACCGAAGCCGGTGGCCTAACCCCTTGTGGGAGGGAGTCGTCGAAG GTGGGACTGGCGATTGGGACGAAGTCGTAACAAGGTAGCCGTA

FIG. 2B

4/10

CNQ732 (SEQ ID NO: 3)

AGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCTTAACAC ATGCAAGTCGAACGATGATCCGGTTTTCGGCCGGTGATTAGTGGCGAA CGGGTGAGTAACACGTGGGTAATCTGCCCTGCACTCTGGGATAAGCC TGGGAAACTGGGTCTAATACCGGATATGACCTTCGGTCGCATGATCG TTGGTGGAAAGCTTTTGCGGTGTGGGATGGGCCCGCGGCCTATCAGC TTGTTGGTGGGGTGATGGCCTACCAAGGCGACGACGGGTAGCCGGCC TGAGAGGGTGACCGGCCACACTGGGACTGAGACACGGCCCAGACTC CTACGGGAGCAGCAGTGGGGAATATTGCACAATGGGCGCAAGCCT GATGCAGCGACGCCGTGAGGGATGACGGCCTTCGGGTTGTAAACC TCTTTCAGCAGGGAAGAAGCGCAAGTGACGGTACCTGCAGAAGAAG CACCGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGTGCAA GCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGTAGGCGGCTTGTC GCGTCGGTTGTGAAAGCCCGGGGCTTAACCCTGGGTCTGCAGTCGAT ACGGGCAGGCTAGAGTTCGGTAGGGGAGACTGGAATTCCTGGTGTA GCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCG GGTCTCTGGGCCGATACTGACGCTGAGGAGCGAAAGCGTGGGGAGC GAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGGTGGGAAC TAGGTGTGGGCAGCATTCCACGTTGTCTGTGCCGTAGCTAACGCATT AAGTTCCCCGCCTGGGGAGTACGCCGCAAGGCTAAAACTCAAAGG AATTGACGGGGCCCGCACAAGCGGCGGAGCATGTGGCTTAATTCGA CGCAACGCGAAGAACCTTACCAAGGCTTGACATGCATCGGAAGCATC CAGAGATGGGTGTGCTCTTTGAGTCGGTGTACAGGTGGTGCATGGCT GTCGTCAGCTCGTGTGGGAGATGTTGGGTTAAGTCCCGCAACGAGC GCAACCCTTGTCCTGTGTTGCCAGCGGAGCTTTCGGGCTGCCGGGGA CTCACGGGAGACTGCCGGGGTCAACTCGGAGGAAGGTGGGGACGAC GTCAAGTCATCATGCCCCTTATGTCTTGGGCTGCACACGTGCTACAAT GGCCGGTACAATGAGCTGCGATGCCGTGAGGTGGAGCGAATCTCAA AAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAACTCGACCCCATGAA GTCGGAGTCGCTAGTAATCGCAGATCAGCATTGCTGCGGTGAATACG TTCCCGGGCCTTGTACACACCGCCCGTCACGTCACGAAAGTCGGTAA CACCGAAGCCGGTGGCCTAACCCCTTGTGGGAGGGAGTCGTCGAAG GTGGGACTGGCGATTGGGACGAAGTCGTAACAAGGTAGCCGTA

FIG. 2C

5/10

CNR252 (SEQ ID NO:4)

AGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCTTAACA CATGCAAGTCGAACGATGATCCGGTTTTCGGCCGGTGATTAGTGGCG AACGGGTGAGTAACACGTGGGTAATCTGCCCTGCACTCTGGGATAA GCCTGGGAAACTGGGTCTAATACCGGATATGACCTTCGGTCGCATG ATCGTTGGTGGAAAGCTTTTGCGGTGTGGGATGGGCCCGCGCCTAT CAGCTTGTTGGTGGGGTAGTGGCCTACCAAGGCGACGACGGGTAGC CGGCCTGAGAGGGTGACCGGCCACACTGGGACTGAGACACGGCCCA GACTCCTACGGGAGCAGCAGTGGGGAATATTGCACAATGGGCGAA AGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTTG TAAACCTCTTTCAGCAGGGAAGAAGCGCAAGTGACGGTACCTGCAG AAGAAGCACCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAG GGTGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGTAGGC GGCTTGTCGCGTCGGTTGTGAAAGCCCGGGGCTTAACCCTGGGTCTG CAGTCGATACGGCCAGGCTAGAGTTCGGTAGGGGAGACTGGAATTC CTGGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGG CGAAGGCGGTCTCTGGGCCGATACTGACGCTGAGGAGCGAAAGCG TGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAAC GGTGGGAACTAGGTGTGGGCAGCATTCCACGTTGTCTGTGCCGCAG CTAACGCATTAAGTTCCCCGCCTGGGGAGTACGGCCGCAAGGCTAA AACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGCGGAGCATGTG GCTTAATTCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATGC ATCGGAAGCGCCTAGAGATGGGTGTGCTCTTTGAGTCGGTGTACAG GTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGGGTTAAG TCCCGCAACGAGCGCAACCCTTGTCCTGTGTTGCCAGCGGAGCCTTC GGGCTGCCGGGGACTCACGGGAGACTGCCGGGGTCAACTCGGAGGA AGGTGGGGACGACGTCAAGTCATCATGCCCCTTATGTCTTGGGCTGC ACACGTGCTACAATGGCCGGTACAATGAGCTGCGATGCCGTGAGGT GGAGCGAATCTCAAAAAGCCAGTCTCAGTTCGGATTGGGGTCTGCA ACTCGACCCCATGAAGTCGGAGTCGCTAGTAATCGCAGATCAGCAT TCACGAAAGTCGGTAACACCCGAAGCCGGTGGCCTAACCCCTTGTG GGAGGGAGTCGTCGAAGGTGGGACTGGCGATTGGGACGAAGTCGTA ACAAGGTAGCCGTA

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CNP027 (SEQ ID NO:5)

AGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCTTAACA CATGCAAGTCGAACGATGATCCGGCTTCGGTCGGGGATTAGTGGCG AACGGGTGAGTAACACGTGGGCAATCTGCCCTGCACTCTGGGATAA GCCTGGGAAACTGGGTCTAATACCGGATATGACCTTCTCTCGCATGG GGGAGGTGGAAAGCTTTTGCGGTGCAGGATGGGCCCGCGGCCTAT CAGCTTGTTGGTGGGGTAGTGGCCTACCAAGGCGACGACGGGTAGC CGGCCTGAGAGGGTGACCGGCCACACTGGGACTGAGACACGGCCCA GACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGCA AGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTTG CGGTACTTGCAGAAGAAGCACCGGCTAACTACGTGCCAGCAGCCGC GGTAATACGTAGGGTGCAAGCGTTGTCCGGATTTATTGGGCGTAAA GAGCTCGTAGGCGGCTTGTCGCGTCGATTGTGAAAGCTCAGGGCTTA ACCCTGGGTCTGCAGTCGATACGGGCAGGCTAGAGTTCGGTAGGGG AGACTGGAATTCCTGGTGTAGCGGTGAAATGCGCAGATATCAGGAG GAACACCGGTGGCGAAGGCGGGTCTCTGGGCCGATACTGACGCTGA GGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTC CACGCTGTAAACGGTGGGAACTAGGTGTGGGCAGCATTCCACGTTG TCTGTGCCGTAGCTAACGCATTAAGTTCCCCGCCTGGGGAGTACGGC CGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCG GCGGAGCATGTGGCTTAATTCGACGCAACGCGAAGAACCTTACCAA GGCTTGACATACGCCGGAAAACCATGGAGACATGGTCCCTCTTTGA GTCGGTGTACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGA TGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTATCCTGTGTTGCC AGCAACTCTCTTCGGAGGGGTTGGGGACTCACGGGAGACTGCCGGG GTCAACTCGGAGGAAGGTGGGGACGACGTCAAGTCATCATGCCCCT TATGTCTTGGGCTGCACACGTGCTACAATGGCTGGTACAATGAGCTG CGATGCCGTGAGGTGGAGCGAATCTCAAAAAGCCAGTCTCAGTTCG GATTGGGGTCTGCAACTCGACCCCATGAAGTCGGAGTCGCTAGTAA TCGCAGATCAGCATTGCTGCGGTGAATACGTTCCCGGGCCTTGTACA CACCGCCGTCACGTCACGAAAGTCGGTAACACCCGAAGCCGGTGG CCTAACCCCTTGTGGGGAGGGAGTCGTCGAAGGTGGGACTGGCGA TTGGGACGAAGTCGTAACAAGGTA

7/10

CNQ140 (SEQ ID NO:6)

AGAGTTTGATCCCTGGCTCAGGACGAACGCTGGCGGCGTGCTTAAC ACATGCAAGTCGAACGATGATCCGGTTTCGGCCGGGGATTAGTGGC GAACGGGTGAGTAACACGTGGGTAATCTGCCCTGCACTTTGGGATA GGGGTTGGTGGAAAGCTTTTGCGGTGCAGGATGGACCCGCGGCCTA TCAGCTTGTTGGTGGGGTAGTGGCCTACCAAGGCGACGACGGGTAG CCGGCCTGAGAGGGTGACCGGCCACACTGGGACTGAGACACGGCCC AGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGA AAGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGGGTT ACGGTACTTGCAGAAGAAGCACCGGCTAACTACGTGCCAGCAGCCG CGGTAATACGTAGGGTGCAAGCGTTGTCCGGATTTATTGGGCGTAA AGAGCTCGTAGGCGGCTTGTCACGTCGATTGTGAAAGCTCAGGGCTT AACCTGGGTCTGCAGTCGATACGGGCAGGCTAGAGTTCGGTAGGG GAGACTGGAATTCCTGGTGTAGCGGTGAAATGCGCAGATATCAGGA GGAACACCGGTGGCGAAGGCGGGTCTCTGGGCCGATACTGACGCTG AGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGT CCACGCTGTAAACGGTGGGAACTAGGTGTGGGCAGCATTCCACGTT GTCTGTGCCGCAGCTAACGCATTAAGTTCCCCGCCTGGGGAGTACGG CCGCAAGGCTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCG GCGGAGCATGTGGCTTAATTCGACGCAACGCGAAGAACCTTACCAA GGCTTGACATACATCGGAATCTGCTGGAGACAGTAGCGCTCTTTGAG TCGGTGTACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGAT GTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTATTCTGTGTTGCCA GCATGCCCTTTCGGGGGTGATGGGGACTCACGGGAGACTGCCGGGG TCAACTCGGAGGAAGGTGGGGACGACGTCAAGTCATCATGCCCCTT ATGTCTTGGGCTGCACACGTGCTACAATGGCTGGTACAATGAGCTGC GATACCGTGAGGTGGAGCGAATCTCAAAAAGCCAGTCTCAGTTCGG ATTGGGGTCTGCAACTCGACCCCATGAAGTCGGAGTCGCTAGTAATC GCAGATCAGCATTGCTGCGGTGAATACGTTCCCGGGCCTTGTACACA CCGCCCGTCACGTCACGAAAGTCGGTAACACCCGAAGCCGGTGGCC TAACCCCTTGTGGGAGGGAGCTGTCGAAGGTGGGACTGGCGATTGG GACGAAGTCGTAACAAGGTAGCCGTA

8/10

**CNQ259 (SEQ ID NO:7)** 

AGAGTTTGATCCCTGGCTCAGGACGAACGCTGGCGGCGTGCTTAAC ACATGCAAGTCGAACGATGAACCGGTTTCGGCCGGGGATTAGTGGC GAACGGGTGAGTAACACGTGGGTGACCTGCCCTGCACTCTGGGATA AGCCCGGGAAACTGGGTCTAATACTGGATATGACCGGTGGCCGCAT GGTCTGCCGGTGGAAAGCTTTATGCGGTGTGGGATGGGCCCGCGGC CTATCAGCTTGTTGGTGGGGTGATGGCCTACCAAGGCGACGACGGG TAGCCGGCCTGAGAGGGTGACCGGCCACACTGGGACTGAGACACGG CCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGG CGGAAGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCCTTCGG GTTGTAAACCTCTTTCAGCAGGGAAGAAGCGCAAGTGACGGTACCT GCAGAAGAAGCACCGGCTAACTACGTGCCAGCAGCCGCGGTAATAC GTAGGGTGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCTCGT AGGCGGCCTGTCGCGTCGATTGTGAAAGCCCGGGGCTTAACTCCGG GTCTGCAGTCGATACGGGCAGGCTAGAGTTCGGTAGGGGAGACTGG AATTCCTGGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACC GGTGGCGAAGGCGGCTCTCTGGGCCGATACTGACGCTGAGGAGCGA AAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCTG TAAACGGTGGGAACTAGGTGTGGGCGACATTCCACGTTGTCTGTGCC GTAGCTAACGCATTAAGTTCCCCGCCTGGGGAGTACGGCCGCAAGG CTAAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGCGGAGC ATGTGGCTTAATTCGACGCAACGCGAAGAACCTTACCAAGGCTTGA CATACGCCGGAAATCTCTGGAGACAGGGGCTCCCTTTTGGGCCGGT GTACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGG GTTAAGTCCCGCAACGAGCGCAACCCTTGTCCTGTTTGCCAGCAAC ACCTTCGGGTGGTTGGGGACTCACGGGAGACTGCCGGGGTCAACTC GGAGGAAGGTGGGGACGACGTCAAGTCATCATGCCCCTTATGTCTT GGGCTGCACACGTGCTACAATGGCCGGTACAAAGGGCTGCGATGCC GTGAGGCGAGCGAATCCCAAAAAGCCGGTCTCAGTTCGGATTGGG GTCTGCAACTCGACCCCATGAAGTCGGAGTCGCTAGTAATCGCAGA TCAGCAGTGCTGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCC CGTCACGTCACGAAAGTCGGTAACACCCGAAGCCGGGGCCTAACCC TCTGGGAGGGAGCCGT

FIG. 2G

## 9/10

## Escherichia coli str. MG1655 (U00096)

G-UC-GA-ACGGU-AA-CAG
GAAACAG-CU
G-CGGA-CG-GG-U-GAGUAAU-GU-CUGGG-A-AACU-GC-CUGAU
GG-A-G-GG-GAU-AA-CUACU-G-GAAA
C-GGU-A-GCUAAUACC-GCAU-AAC
AGAC
AGACGAGGGG-GACC
-UGCA-UCAGAUGU-GCCCAGAUGGGAUUA
G-CU-AGUAGG-UG-GG-GU-AAC-GG-C-UC-ACC-UA-GGC-GA-CGA
UC-CC-U-AG-C-UG-G-UCUG-AGA-GGAUGA-CCAG-C-C-AC-A
CU-GG-A-A-CU-GA-GA-CAC-G-GUC-C-AG-AC-UCC-UACGGGA-GGC
AG-C-AGU-GGGGAAU-AUU-G-CACA-AUGG-GC-GCAA-GCC-UGA-U
C-AGC-CAU-GCC-GC-GUG-U-AU-G-AA-GAAG-GCCUU-CGGG-UU
GUAAAG-UACUUU-C-AG-CGGG-GAGGA-A-G
-GAGUA-AAGUUAAUACA
UU-GA-CGUU-A-CC-C-G-C-AG-AAGAA-GC-ACC-GG-CU
ACUC-CGUGCCAGCAGCC-GC-GGU-A-AU-A-C-G-GAG-GGUG-CAAG
CG-UUA-AU-CGGAAUUACU-GGGC-G-UAAA-GCGC-ACG-CAG-GC-GG
-UU-G-UU-AA
CA-GAUGUG-AAA-UCCCC-GGG-C-UCAACCU-GG-G-AACUG-C
U-CU-GA-UAC-U-GGCA-AG-CUU-GAGUCUCG-UA-GAG-GG
GG-UAGAAUU-CCAGGU-GUA-GC-G-GUGAAA-UGC-GU-AGAG-AUC
UG-GAGG-AAU-A-CCGGU-G-GC-GAA-G-GCG-
CCCCCUGGACGAA-GACUGACG-CUCAG-G
UGC-GAAAGC-GU-GG-GGA-GC-AAA-CAGGAUUAGA-UAC-CCU
00 117 0110 070 0 0 0 0 777 070 070 07 07
-GG-UA-GUCCAC-G-CC-GUAAAC-GAUGUCGA-CUU
-GG-UA-GUCCAC-G-CC-GUAAAC-GAUGUCGA-CUU -GA-GG-UUGUG-CC
-GA-GG-UUGUG-CCCUUGA
-GA-GG-UUGUG-CCGG-C-GU-GGC-UUCCGGAGC-UAACG-CG
-GA-GG-UUGUG-CCGG-C-GU-GGC-UUCCGGAGC-UAACG-CG-UUAA-GUCG-AC-CG-CCU-G-GG-GAGUAC-GGCCGCAAG-UU-AAAACU
-GA-GG-UUGUG-CC

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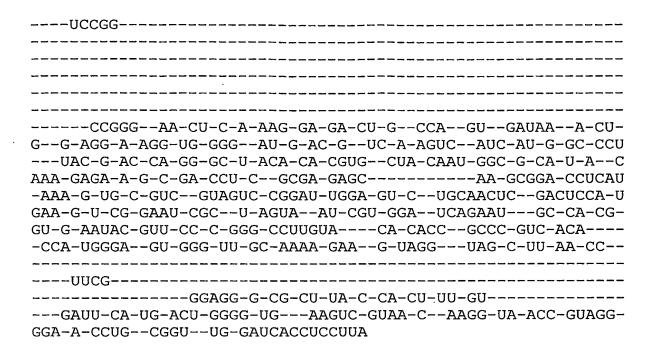


FIG. 3B